Finisar®

Product Guide

Transceivers, Transponders, and Active Cables for Datacom and Telecom Applications

CFP

SFP+

SFF

XFP

300 PIN

Active Cable

TRANSCEIVERS, TRANSPONDERS, AND ACTIVE CABLES FOR DATACOM AND TELECOM APPLICATIONS

Finisar's broad product selection and innovative technology have made us the optical module manufacturer of choice for all major networking equipment vendors worldwide. We have taken a leading role in transforming the datacommunications and telecommunications equipment market from utilizing discrete optical components to leveraging the design and pay-as-you-grow flexibility offered by pluggable modules. Our products are fully compliant with Ethernet, Fibre Channel, SONET/SDH/OTN and PON standards and operate at data rates up to 100 Gb/s. They are capable of distances ranging from very short reach within a datacenter to campus, access, metro, and long-haul reaches. They feature outstanding performance over extended voltage and temperature ranges, while minimizing jitter, electromagnetic interference (EMI) and power dissipation.

FINISAR MODULES ARE AVAILABLE IN A WIDE VARIETY OF FORM FACTORS:

SFP (copper and optical; longwave, shortwave and WDM)

- **DATACOM** applications using Fast Ethernet, Gigabit Ethernet, 1x/2x/4x Fibre Channel
- **TELECOM** applications using OC-3/STM-1, OC-12/STM-4 and OC-48/STM-16 across all reaches

Features

- 3.3 V operating voltage
- Distances from very short links up to 100+ km
- Wide operating temperature range
- Metal enclosure for lower EMI
- Digital diagnostics
- Wireless CPRI/OBSAI compliant

SFP

SFP+ (optical; longwave and shortwave)

- **DATACOM** applications using 10 Gigabit Ethernet and 2x/4x/8x/16x Fibre Channel

Features

- 3.3 V operating voltage
- Supports bit rates up to 14.025 Gb/s
- Distances from short links up to 40 km metro links
- Wide operating temperature range
- Digital diagnostics
- Wireless CPRI/OBSAI compliant

SFP+

CFP (optical; longwave and shortwave)

- **DATACOM** applications using 40G and 100G Ethernet

Features

- Hot-pluggable CFP form factor
- Supports 39.8 Gb/s to 103.1 Gb/s aggregate bit rates
- CFP MSA-compliant form factor
- Single 3.3V power supply

CFP

QSFP (optical; shortwave)

- **DATACOM** applications using 40G Ethernet

Features

- Four-channel full-duplex transceiver module
- Hot Pluggable QSFP+ form factor
- Maximum link length of 100m on OM3 MMF and 150m on OM4 MMF
- Multirate capability; supports 1.06Gb/s to 10.5Gb/s per channel

QSFP

CXP (optical; shortwave)

- **DATACOM** applications using 100G Ethernet and chassis interconnections

Features

- Twelve-channel full-duplex transceiver module
- Hot Pluggable CXP form factor
- Maximum link length of 100m on OM3 MMF and 150m on OM4 MMF
- Multirate capability; supports 1.06Gb/s to 12.5Gb/s per channel

CXP

FINISAR'S PATENTED DIGITAL DIAGNOSTICS

Finisar's XFP, XPAK, X2, XENPAK, 300 PIN, SFP, SFP+, and 2x7 and 2x10 SFF transceivers feature a microprocessor and diagnostics interface that provides performance information on the data link. Users can remotely monitor—in real-time—received optical power, transmitted optical power, laser bias current, transceiver input voltage and transceiver temperature of any transceiver in the network. These digital diagnostic functions provide network managers with a highly accurate, cost-effective tool for implementing reliable performance monitoring.

Active Optical Cables

laserwire™	10 Gb/s Serial Active Optical Cable for 1/10GbE and 1/2/4/8x Fibre Channel
quadwire™	40 Gb/s Parallel Active Optical Cable for 40GbE and InfiniBand 4xQDR
C.wire™	150 Gb/s Parallel Active Optical Cable for 100GbE and InfiniBand 12xQDR

Active Optical Cables

XFP (optical; longwave, shortwave, DWDM, and Tunable)

- **DATACOM** applications using 10 Gigabit Ethernet and 10x Fibre Channel
- **TELECOM** applications using OC-192/STM-64

Features
- Supports bit rates up to 11.3 Gb/s
- Distances up to 80 km
- Digital diagnostics

XFP

X2/XPAK (optical; longwave and shortwave)

- **DATACOM** applications using 10 Gigabit Ethernet and 10x Fibre Channel

Features
- 1.2 V, 3.3 V and 5 V operating voltage
- Supports bit rates up to 10.5 Gb/s
- Distances up to 80 km
- Digital diagnostics

X2

XENPAK (optical; longwave and shortwave)

- **DATACOM** applications using 10 Gigabit Ethernet

Features
- 1.2 V, 3.3 V and 5V operating voltage
- Supports bit rates up to 10.3 Gb/s
- Distances up to 10km
- Digital diagnostics

XENPAK

300 PIN (optical; longwave)

- **TELECOM** 10 Gb/s and 40 Gb/s applications

Features
- Supports bit rates up to 44.6 Gb/s
- Available in RZ-OOK (10G), NRZ-OOK (10G/40G), and NRZ-DPSK (40G) formats
- Compliant to industry standards (ITU-T; SFI-4/5; 300 PIN MSA)
- DWDM broadly 50GHz spaced tunablility across C or L bands

300 PIN

SFF (optical 2x5, 2x7 and 2x10; longwave and shortwave)

- **DATACOM** applications using Gigabit Ethernet, 1x/2x/4x Fibre Channel
- **TELECOM** applications using OC-3/STM-1, OC-12/STM-4 and OC-48/STM-16 across all reaches

Features
- 3.3 V operating voltage
- Distances from very short links up to 80 km
- Wide operating temperature range
- Metal enclosure for lower EMI
- 2x7 and 2x10 incorporate digital diagnostics

SFF

PON (optical; longwave)

- **TELECOM** access applications for GPON and EPON

Features
- 3.3 V operating voltage
- EPON stick incorporates full EPON ONU functionality
- Distances up to 20 km, Class B+, PX-20+
- Digital diagnostics

PON

SFP

SFP+

SFF

PON

XFP

X2

XENPAK

300 PIN

CFP

AOC/QSFP/CXP

	Part Number	RoHS (lead free)	Rate Select	Media Type	Wavelength (nm)	Transmitter	Receiver	Data Rate (max)	Voltage Supply (V)	Optical Fast Ethernet	Optical Gigabit Ethernet	1x Fibre Channel	2x Fibre Channel	4x Fibre Channel	8x Fibre Channel	16x Fibre Channel	SONET OC-3	SONET OC-12	SONET OC-48	SONET OC-192	SONET OC-768	OTN OTU3	10x Fibre Channel	10 Gigabit Ethernet	40G Ethernet	100G Ethernet	IB QDR	1000BASE-T	PON	Wireless CPRI/OBSAI†	Case Temperature Range (°C)	Connector	Module Type	Diagnostics	Reach
SFP	FCLF-8520/21-3	✓		Copper	N/A	N/A	N/A	1.25 Gb/s	3.3																			●		●	0 to 85	RJ-45	Pluggable	N/A	100 m
	FCLF852xP2BTL	✓		Copper	N/A	N/A	N/A	1.25 Gb/s	3.3																			●		●	-40 to 85	RJ-45	Pluggable	N/A	100 m
	FTLF8519P2xCL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																	●	0 to 70	LC	Pluggable	N/A	550 m
	FTLF8519P2xNL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																	●	-20 to 85	LC	Pluggable	Digital	550 m
	FTLF8519P3BxL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																	●	-20 to 85	LC	Pluggable	Digital	550 m
	FTLF8519P2xTL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																	●	-40 to 85	LC	Pluggable	Digital	550 m
	FTLF8524P2xNL	✓		Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3		■	●	●	●																●	-20 to 85	LC	Pluggable	Digital	550 m
	FTLF8524P2xNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3		●	●	●	●																●	-20 to 85	LC	Pluggable	Digital	550 m
	FTLF1217P2xTL	✓		Multimode	1310	LED	PIN	200 Mb/s	3.3	●							■													●	-40 to 85	LC	Pluggable	Digital	2 km
	FTLF1318P2xCL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	1.25 Gb/s	3.3		●	●																		●	0 to 70	LC	Pluggable	N/A	10 km
	FTLF1318P2xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	1.25 Gb/s	3.3		●	●																		●	-40 to 85	LC	Pluggable	Digital	10 km
	FTLF1419P1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.125 Gb/s	3.3		●	●	●																	●	-10 to 70	LC	Pluggable	Digital	55 km
	FTLF1518P1BTL	✓		Single Mode	1550	DFB Laser	PIN	1.25 Gb/s	3.3		●	●																		●	-40 to 85	LC	Pluggable	Digital	90 km
	FTLF1519P1xCL	✓		Single Mode	1550	DFB Laser	PIN	2.125 Gb/s	3.3		●	●	●																	●	-10 to 70	LC	Pluggable	Digital	90 km
	FTLF1519P1xNL	✓		Single Mode	1550	DFB Laser	PIN	2.125 Gb/s	3.3		●	●	●																	●	-5 to 85	LC	Pluggable	Digital	90 km
	FTLF1619P1xCL	✓		Single Mode	1550	DFB Laser	APD	2.125 Gb/s	3.3		●	●	●																	●	-10 to 70	LC	Pluggable	Digital	115 km
	FTLF1324P2xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	4.25 Gb/s	3.3		■	●	●	●																●	-40 to 85	LC	Pluggable	Digital	4 km
	FTLF1324P2xTV	✓	✓	Single Mode	1310	Fabry-Perot Laser	PIN	4.25 Gb/s	3.3		●	●	●	●																●	-40 to 85	LC	Pluggable	Digital	4 km
	FTLF1424P2xCR	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		■	●	●	●																●	-10 to 70	LC	Pluggable	Digital	10 km
	FTLF1424P2xCD	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		●	●	●	●																●	-10 to 70	LC	Pluggable	Digital	10 km
	FTLF1424P2xTR	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		■	●	●	●																●	-40 to 85	LC	Pluggable	Digital	10 km
	FTLF1424P2xTD	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		●	●	●	●																●	-40 to 85	LC	Pluggable	Digital	10 km
	FTLF1424P2xCL	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		■	●	●	●																●	-10 to 70	LC	Pluggable	Digital	30 km
	FTLF1424P2xCV	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3		●	●	●	●																●	-10 to 70	LC	Pluggable	Digital	30 km
	FTLF1323P1xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	■							●													●	-40 to 85	LC	Pluggable	Digital	15 km
	FTLF1323P1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	■							●													●	-40 to 85	LC	Pluggable	Digital	40 km
	FTLF1523P1xTL	✓		Single Mode	1550	DFB Laser	PIN	155 Mb/s	3.3	■							●													●	-40 to 85	LC	Pluggable	Digital	80 km
	FTLF1322P1xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	622 Mb/s	3.3								●	●												●	-40 to 85	LC	Pluggable	Digital	15 km
	FTLF1422P1xTL	✓		Single Mode	1310	DFB Laser	PIN	622 Mb/s	3.3									●												●	-40 to 85	LC	Pluggable	Digital	40 km
	FTLF1522P1xTL	✓		Single Mode	1550	DFB Laser	PIN	622 Mb/s	3.3									●												●	-40 to 85	LC	Pluggable	Digital	80 km
	FTLF1321P1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-40 to 85	LC	Pluggable	Digital	2 km
	FTLF1421P1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-10 to 70	LC	Pluggable	Digital	15 km
	FTLF1421P1xTL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-40 to 85	LC	Pluggable	Digital	15 km
	FTLF1521P1xCL	✓		Single Mode	1550	DFB Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●											●	0 to 70	LC	Pluggable	Digital	15 km
	FTLF1721P1xCL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-10 to 70	LC	Pluggable	Digital	40 km
	FTLF1721P2xTL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-40 to 85	LC	Pluggable	Digital	40 km
	FTLF1621P1xCL	✓		Single Mode	1550	DFB Laser	APD	2.67 Gb/s	3.3		●	●	●				■	■	●											●	-10 to 70	LC	Pluggable	Digital	80 km
	FWLF1523P1C51	✓		Single Mode	1511	DFB Laser	PIN	155 Mb/s	3.3	■							■														0 to 70	LC	Pluggable	Digital	80 km
	FWLF1523P1N51	✓		Single Mode	1511	DFB Laser	PIN	155 Mb/s	3.3	■							■														-5 to 85	LC	Pluggable	Digital	80 km
	FWLF15197Dxx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	1.25 Gb/s	3.3	■	●	●					■	■												●	0 to 70	LC	Pluggable	Digital	80 km
	FWLF-1619-7D-xx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	1.25 Gb/s	3.3	■	●	●					■	■												●	0 to 70	LC	Pluggable	Digital	100 km
	FWLF15217Dxx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	2.67 Gb/s	3.3	■	●	●	●				■	■	■											●	0 to 70	LC	Pluggable	Digital	50 km
	FWLF1521P2Nxx	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	2.67 Gb/s	3.3	■	●	●	●				■	■	■											●	-10 to 85	LC	Pluggable	Digital	50 km
	FWLF-1621-7D-xx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	2.67 Gb/s	3.3	■	●	●	●				■	■	●											●	0 to 70	LC	Pluggable	Digital	80 km
	FWDM1621P2Txx	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	2.67 Gb/s	3.3	■	●	●	●				■	■	●											●	-40 to 85	LC	Pluggable	Digital	80 km
	FWLF1524P2Vxx	✓	✓	Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	4.25 Gb/s	3.3		●	●	●	●					●											●	-5 to 75	LC	Pluggable	Digital	40 km
	FWLF1625P2Vxx	✓	✓	Single Mode	1471, 1491, 1511,1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	5Gb/s	3.3					●			■	■	■											●	-5 to 70	LC	Pluggable	Digital	80km
	FWLF1631xx(**)	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	2.67 Gb/s	3.3	■	●	●	●				■	■	●											●	0 to 70	LC	Pluggable	Digital	120 km
	FWLF1631Rxx(**)	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	2.67 Gb/s	3.3	■	●	●	●				■	■	●											●	0 to 70	LC	Pluggable	Digital	160 km
	FWLF1634RLxx	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	4.25 Gb/s	3.3		■	●	●	●			■	■	■											●	-5 to 70	LC	Pluggable	Digital	80 km
	FTLF2318P1BCL (Smart SFP)			Single Mode	1310	FP Laser	PIN	1.25 Gb/s	3.3			●																		●	-20 to 70	LC	Pluggable	Digital	10 km
	FWLF2519C1Cxx (Smart SFP)			Single Mode	1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610	CWDM DFB Laser	PIN	1.25 Gb/s	3.3			●																		●	0 to 70	LC	Pluggable	Digital	50 km
SFP+	FTLF8529P3BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	14.025Gb/s	3.3					●	●	●															0 to 70C	LC	Pluggable	Digital	100m
	FTLF8529P3BNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	14.025Gb/s	3.3					●	●	●															0 to 85C	LC	Pluggable	Digital	100m
	FTLF8528P2BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	8.5 Gb/s	3.3			■	●	●	●																-5 to 70	LC	Pluggable	Digital	150 m(*)
	FTLF8528P2BNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	8.5 Gb/s	3.3			■	●	●	●																-5 to 85	LC	Pluggable	Digital	150 m(*)
	FTLF1328P2BNV	✓	✓	Single Mode	1310	Fabry-Perot Laser	PIN	8.5 Gb/s	3.3				●	●	●																-5 to 85	LC	Pluggable	Digital	1.4 km
	FTLF1428P2BNV	✓	✓	Single Mode	1310	DFB Laser	PIN	8.5 Gb/s	3.3			■	●	●	●																-5 to 85	LC	Pluggable	Digital	10km
	FTLF1429P3BNV	✓	✓	Single Mode	1310	DFB Laser	PIN	14.025Gb/s	3.3				●	●	●																-5 to 85	LC	Pluggable	Digital	10 km
	FTLX8571D3BCL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3														●	●							0 to 70	LC	Pluggable	Digital	300 m(*)
	FTLX8571D3BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	3.3		●													●							0 to 70	LC	Pluggable	Digital	300 m(*)
	FTLX8571D3BNL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3														●	●							0 to 85	LC	Pluggable	Digital	300 m(*)
	FTLX1371D3BCL	✓		Mutimode	1310	Fabry-Perot Laser	PIN	10.3 Gb/s	3.3															●							-5 to 70	LC	Pluggable	Digital	220 m(***)
	FTLX1471D3BCL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3														●	●							-5 to 70	LC	Pluggable	Digital	10 km
	FTLX1471D3BCV	✓	✓	Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	3.3		●													●							-5 to 70	LC	Pluggable	Digital	10 km
	FTLX1471D3BNL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3														●	●							-5 to 85	LC	Pluggable	Digital	10 km
	FTLX1471D3BTL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3														●	●							-40 to 85	LC	Pluggable	Digital	10km
	FTLX1671D3BCL	✓		Single Mode	1550	CML™	PIN	10.3 Gb/s	3.3															●							0 to 70	LC	Pluggable	Digital	40 km
	FTLF8526P3BTL	✓		Multimode	850	Oxide VCSEL	PIN	6.144 Gb/s	3.3																					●	-40 to 85	LC	Pluggable	Digital	300 m(*)
	FTLF1326P3BTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	6.144 Gb/s	3.3																					●	-40 to 85	LC	Pluggable	Digital	2 km
	FTLF1426P2BTL	✓		Single Mode	1310	DFB Laser	PIN	6.144 Gb/s	3.3																					●	-40 to 85	LC	Pluggable	Digital	10/15km
	FTLX1472M3BCL	✓	✓	Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3						●					●			●	●							-5 to 75	LC	Pluggable	Digital	10 km
SFF	FTLF8519F2xCL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																		0 to 70	LC	2x5	N/A	550 m
	FTLF8519F2xNL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																		-10 to 85	LC	2x5	N/A	550 m
	FTLF8519F2xTL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3		●	●	●																		-40 to 85	LC	2x5	N/A	550 m
	FTLF8524E2xNL	✓		Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3		■	●	●	●																	-10 to 85	LC	2x7	Digital	550 m
	FTLF8524E2xNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3		■	●	●	●																	-10 to 85	LC	2x7	Digital	550 m
	FTLF1319F1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.125 Gb/s	3.3		●	●	●																		-40 to 85	LC	2x5	N/A	10 km
	FTLF1321S1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●												-40 to 85	LC	2x10	Analog & Digital	2 km
	FTLF1421S1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3		●	●	●				■	■	●												-10 to 70	LC	2x10	Analog & Digital	15 km
	FTLF1721S1xCL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3		●	●	●				■	■	●												-10 to 70	LC	2x10	Analog & Digital	40 km
	FTLF1621S1xCL	✓		Single Mode	1550	DFB Laser	APD	2.67 Gb/s	3.3		●	●	●				■	■	●												-10 to 70	LC	2x10	Analog & Digital	80 km
	FTLF1323F2xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	■							●														-40 to 85	LC	2x5	N/A	15 km
	FTLF1322F2xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	622 Mb/s	3.3								●	●													-40 to 85	LC	2x5	N/A	15 km
PON	FTGN3025Q1TAS (ONU 1x20)	✓		Single Mode	1490,1310,1555	DFB Laser	APD/PIN	2.48 Gb/s	3.3 & 12																				●		-40 to 85	SC/APC	1x20	Digital	20 km
	FTxL2025S1xUS (OLT SFF)	✓		Single Mode	1490,1310	DFB Laser	APD	2.48/1.25Gb/s	3.3																				●		-40 to 85	SC/UPC	2x10	Digital	20 km
	FTGL202xPxxUN (OLT SFP)	✓		Single Mode	1490/1310	DFB Laser	APD	2.48 Gb/s	3.3																				●		-40 to 85	SC/UPC	Pluggable	Digital	20 km
	FTEN2115P1NUN(CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3																				●		-20 to 70	SC	Pluggable	Digital	10 km
	FTEN2116P1NUN(CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3																				●		-20 to 70	SC	Pluggable	Digital	20km
	FTEN2117P1NUN(CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3																				●		-20 to 70	SC	Pluggable	Digital	20km+
	FTEN2215P1CUN(SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3																				●		0 to 70	SC	Pluggable	Digital	10km
	FTEN2216P1CUN(SFP-ONU)	✓		Single Mode	1310/1490	DFB Laser	PIN	1.25 Gb/s	3.3																				●		0 to 70	SC	Pluggable	Digital	20km
	FTEN2217P1CUN(SFP-ONU)	✓		Single Mode	1310/1490	DFB Laser	PIN	1.25 Gb/s	3.3																				●		0 to 70	SC	Pluggable	Digital	20km+
XFP	FTLX8511D3	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3														●	●							0 to 70	LC	Pluggable	Digital	300 m(*)
	FTLX8511D3BTL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3														●	●							-40 to 85	LC	Pluggable	Digital	300 m(*)
	FTLX1412D3BCL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3						●								●	●							-5 to 75	LC	Pluggable	Digital	10 km
	FTLX1412M3BCL	✓		Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3						●					●			●	●							-5 to 75	LC	Pluggable	Digital	10 km
	FTLX1412M3BTL	✓		Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3						●					●			●	●							-40 to 85	LC	Pluggable	Digital	10 km
	FTLX1612M3BCL	✓		Single Mode	1550	EML	PIN	11.3 Gb/s	3.3 and 5						●					●			●	●							-5 to 75	LC	Pluggable	Digital	40 km
	FTLX1612M3BTL	✓		Single Mode	1550	EML	PIN	11.3 Gb/s	3.3 and 5						●					●			●	●							-40 to 85	LC	Pluggable	Digital	40 km
	FTLX1812M3BCL	✓		Single Mode	1550	EML	APD	11.3 Gb/s	3.3 and 5						●					●			●	●							-5 to 70	LC	Pluggable	Digital	80 km
	FTLX3612M3xx	✓		Single Mode	DWDM C-Band (fixed)	DWDM EML	PIN	11.3 Gb/s	3.3 and 5						●					●			●	●							-5 to 70	LC	Pluggable	Digital	40 km
	FTLX3811F3xx	✓		Single Mode	DWDM C-Band (fixed)	DWDM EML	APD	8.8 Gb/s	1.8, 3.3 and 5						●																-5 to 70	LC	Pluggable	Digital	80 km
	FTLX3811M3xx	✓		Single Mode	DWDM C-Band (fixed)	DWDM EML	APD	11.1 Gb/s	1.8, 3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	80 km
	FTLX3812M3xx	✓		Single Mode	DWDM C-Band (fixed) OSNR Optimized	DWDM EML	APD	11.1 Gb/s	1.8, 3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	80 km
	FTLX4213M3BCL	✓		Single Mode	1550	CML™	APD	10.5 Gb/s	3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	120 km
	FTLX4213xxxxxx	✓		Single Mode	DWDM C/L Band on 50GHz ITU Grid (FEC-Only)	CML™	APD	11.3 Gb/s	3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	200 km
	FTLX6811MCC	✓		Single Mode	C-Band	Tunable + InP MZM	APD	11.3 Gb/s	3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	80 km
	FTLX6611MCC	✓		Single Mode	C-Band	Tunable + InP MZM	PIN	11.3 Gb/s	3.3 and 5											●			●	●							-5 to 70	LC	Pluggable	Digital	40 km
XPAK	FTLX8551E3	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	LC	Pluggable	Digital	300 m(*)
	FTLX8551F3	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	1.2, 3.3 and 5														●								0 to 70	LC	Pluggable	Digital	300 m(*)
	FTLX1451E2	✓		Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	SC	Pluggable	Digital	10 km
	FTLX1451F2	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	1.2, 3.3 and 5														●								0 to 70	SC	Pluggable	Digital	10 km
X2	FTLX8541E2	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	SC	Pluggable	Digital	300 m(*)
	FTLX8541F2	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	1.2, 3.3 and 5														●								0 to 70	SC	Pluggable	Digital	300 m(*)
	FTLX1341E2	✓		Multimode	1310	Fabry-Perot Laser	PIN	10.3 Gb/s	1.2, 3.3, and 5															●							0 to 70	SC	Pluggable	Digital	220 m(***)
	FTLX1442E2	✓		Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	SC	Pluggable	Digital	10 km
	FTLX1442F2	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	1.2, 3.3 and 5														●								0 to 70	SC	Pluggable	Digital	10 km
XEN PAK	FTLX8561E2	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	SC	Pluggable	Digital	300 m(*)
	FTLX1462E2	✓		Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	1.2, 3.3 and 5															●							0 to 70	SC	Pluggable	Digital	10 km
300 PIN	54TRAAV2GPL		✓	Single Mode	1550 NRZ	EML	PIN	39.8-43.1 Gb/s	3.3, 5, -5.2												●	●									0 to 70	LC/SC/MU	300 PIN	Analog & Digital	2 km
	53DPAAU4JBLCB		✓	Single Mode	C/L Band NRZ-DPSK	Tunable + LN	DLI+ Balanced PIN	39.8-44.6 Gb/s	3.3, 5, -5.3												●	●									-5 to 70	LC/SC/MU	300 PIN	Digital	VLH
	14TRAAI2MPL		✓	Single Mode	1550	EML	PIN	11.3 Gb/s	3.3, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	40 km
	14TRAAL2MAL		✓	Single Mode	1550	EML	APD	11.3 Gb/s	3.3, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
	12TRAAU4MPLCB		✓	Single Mode	C/L Band PIN	Tunable + LN	PIN	11.3 Gb/s	1.8, 3.3, 5, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
	12TRAAU4MALCB		✓	Single Mode	C/L Band APD	Tunable + LN	APD	11.3 Gb/s	1.8, 3.3, 5, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
	16TRAAU4MALCB		✓	Single Mode	C/L Band APD	Tunable + LN	APD	11.1 Gb/s	3.3, 5, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
	12RZAAU4MALCB		✓	Single Mode	C/L Band RZ	Tunable + LN	APD	11.3 Gb/s	1.8, 3.3, 5, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	50 km
	12DBAAU4MALCB		✓	Single Mode	C/L Band ODB	Tunable + LN	APD	11.3 Gb/s	1.8, 3.3, 5, -5.2											●			●	●							-5 to 70	LC/SC/MU	300 PIN	Analog & Digital	160 km
CFP	FTLC1181RDNx	✓	✓	Single Mode	1300nm LAN WDM 4 Channels	EML	PIN	103.1 Gb/s	3.3																	●					0 to 70	SC/LC	Pluggable	Digital	10 km
	FTLQ7181EALx	✓	✓	Single Mode	1300nm CWDM 4Channels	DFB Laser	PIN	41.2 Gb/s	3.3																●						-5 to 75	SC/LC	Pluggable	Digital	10 km
	FTLQ7181MALx	✓	✓	Single Mode	1300nm CWDM 4 Channels	DFB Laser	PIN	44.6 Gb/s	3.3													●			●						-5 to 75	SC/LC	Pluggable	Digital	10 km
	FTLQ8181EBLM	✓	✓	Multimode	850nm 4 Channels	Oxide VCSEL	PIN	41.2 Gb/s	3.3																●						-5 to 75	MPO(MTP12)	Pluggable	Digital	100 m (*)
AOC/ QSFP/CXP	Laserwire	✓		Multimode	850	Oxide VCSEL	PIN	10 Gb/s	3.3		■	■	■	■	■									●							0 to 60	N/A	AOC	N/A	30 m
	Quadwire (QSFP-based AOC)	✓		Multimode	850	4x VCSEL	PIN	42 Gb/s	3.3																●		●				0 to 70	N/A	AOC	Digital	300 m
	C.wire (CXP-based AOC)	✓		Multimode	850	12x VCSEL	PIN	150 Gb/s	3.3																	●	●				0 to 70	N/A	AOC	Digital	300 m
	FTL410QE1C (QSFP transceiver)	✓		Multimode	850	4x VCSEL	PIN	42 Gb/s	3.3														■	■	●		■				0 to 70	MPO(MTP24)	QSFP+	Digital	100 m (*)
	FTLD10CE1C (CXP transceiver)	✓		Multimode	850	12x VCSEL	PIN	120 Gb/s	3.3														■	■	■	●	■				0 to 70	MPO(MTP24)	CXP	Digital	100 m (*)
	FTLD12CL1C (CXP transceiver)	✓		Multimode	850	12x VCSEL	PIN	150 Gb/s	3.3														■	■	■	■	■				0 to 70	MPO(MTP24)	CXP	Digital	100 m (*)

(*) Using 50-micron multimode fiber with 2000 MHz*km bandwidth (**) Extended case temperature ranges and reaches are available upon request (***) 100m using 50-micron multimode fiber with 400 MHz*km bandwidth Compliant ● Compatible ■ VLH: Very Long Haul †Wireless CPRI/OBSAI include the following data rates: 1.23G, 3.07G, 4.92G, 6.14G

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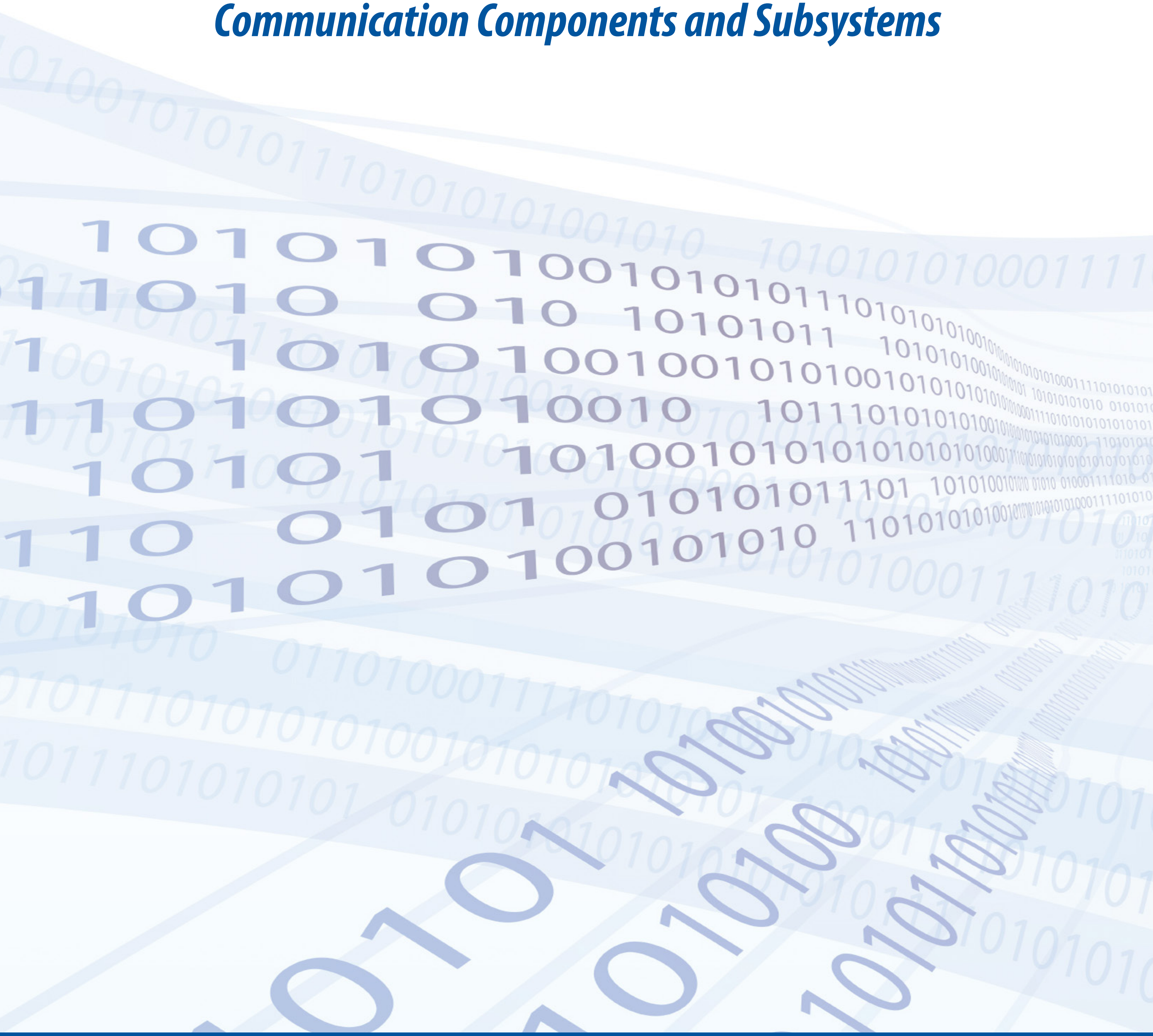

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